

LEXSEE jp-a 63167684

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PATENT ABSTRACTS OF JAPAN

63167684

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CONTROL CIRCUIT FOR PIEZOELECTRIC ACTUATOR

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ABST:

PURPOSE: To drive a multitude of piezoelectric actuators by a small number of power sources, by connecting a capacitor in parallel to the piezoelectric actuator.

CONSTITUTION: Piezoelectric actuators 51 are constituted of piezoelectric actuators 21, capacitors 31, provided in parallel to the piezoelectric actuators 21, and position sensors 23, detecting physical amounts such as the amount of displacement or the like while a plurality of the piezoelectric actuators 51 are connected to a controller 54 through changeover switches 52, 53 and a resistor 33 for limiting current. The sensors 23 are connected to the controller 54 and the signal of the sensor 23 is compared with a set value in the inside of the controller 54 through a physical amount/voltage converter. According to this constitution, the amount of strain is changed in accordance with the input voltage of the piezoelectric actuator 21 while the amount of the change is fed back to the controller 54 from the sensor 23. When a position signal coincides with a set value and electric change is accumulated in the capacitor 31, both of the changeover switches 53, 52 are switched. Respective piezoelectric actuators 51 are switched in the same manner and the actuators are controlled.

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